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Adding and Subtracting Positive and Negative Numbers

Lesson Plan

June 19, 2012

**Topic:** Adding and Subtracting Positive and Negative Numbers

**Goal:** Develop rules for adding and subtracting integers

**Objectives:**

* Locate and Identify integers on a number line (greater than or equal to -20).
* Solve problems involving addition, subtraction, multiplication and division of whole numbers (multipliers up to 2 digits – divisors one digit) and decimals including money (answer through hundredths – no divisors with decimals).
* Use appropriate mathematical terms, vocabulary, language, symbols, and graphs to explain clearly and logically solutions to problems.

**Standards:**

* M5.A.1.4.1: Locate/Identify integers on a number line (greater than or equal to -20).
* M5.A.2.1.1: Solve problems involving addition, subtraction, multiplication and division of whole numbers (multipliers up to 2 digits – divisors one digit) and decimals including money (answer through hundredths – no divisors with decimals).
* 2.5.5.B: Use appropriate mathematical terms, vocabulary, language, symbols, and graphs to explain clearly and logically solutions to problems.

**Vocabulary:** Integer, Positive Integer, Negative Integer, Opposite Integer

**Time:** 60minutes

* Before beginning the lesson students will be given worksheet with rules for adding and subtracting positive and negative numbers. I will also display this on the SMARTBoard for students to see.
* I will begin by going over each of the examples provided on the worksheet. Students will be asked to use their slates to write down the example problems.
  + While students are working on the example problems I will ask them to hold up their slates when they are completed to check their understanding.
  + After I have checked each of the student’s answers I will display and explain how to get the desired answer.
* Students will then watch a short video from Discovery Education in which they use manipulative to show how to solve sample problems.
  + I will pause the video while it is playing and ask for volunteers to answer problems provided through the video.
  + Clear up any questions that the students may have while the video is playing.
* Students will then be paired up to work on the Let’s Practice page provided at the end of the PowerPoint.
  + Walk around the classroom and check to make sure that each student understands.
  + Work with any group that may be having difficulty
* Once completed we will go over each of the answers whole group.
  + Ask for volunteers to put their work on the SMARTBoard.
  + Answer any questions
* Have students volunteer to restate the rule for adding and subtracting positive and negative numbers.
  + Assign Math Journal page 240 for homework

**Citation (APA)**

Los Angeles County Office of Education (Producer). (2001). Subtracting Integers. [Video Segment]. Available from http://www.discoveryeducation.com/